

AMENDMENTS TO THE CLAIMS

The following claim set replaces all prior versions of the claims.

1. (Canceled)
2. (Withdrawn) A method for detecting milk allergens wherein a monoclonal antibody recognizing native milk allergens and a monoclonal antibody recognizing denatured milk allergens are used in combination.
3. (Canceled)
4. (Withdrawn) The method for detecting milk allergens according to claim 2, wherein the monoclonal antibody recognizing native milk allergens and/or denatured milk allergens is an anti- α s1 casein monoclonal antibody.
5. (Withdrawn) The method for detecting milk allergens according to claim 4, wherein the anti- α s1 casein monoclonal antibody recognizes a native α s1 casein, an urea-treated α s1 casein, a native sodium casein and a denatured sodium casein.
6. (Canceled)
7. (Withdrawn) The method for detecting milk allergens according to claim 4, wherein the anti- α s1 casein monoclonal antibody is the anti- α s1 casein monoclonal antibody Pas1CN1 produced by hybridoma (FERM ABP-10263) and/or the anti- α s1 casein monoclonal antibody Pas1CN2 produced by hybridoma (FERM ABP-10264).
8. (Canceled)

9. (Withdrawn) The method for detecting milk allergens according to claim 2, wherein the monoclonal antibody recognizing native milk allergens and/or denatured milk allergens is an anti- β -lactoglobulin monoclonal antibody.

10. (Withdrawn) The method for detecting milk allergens according to claim 9, wherein the anti- β -lactoglobulin monoclonal antibody recognizes a native β -lactoglobulin, an urea-treated β -lactoglobulin, and a reduced-carboxymethylated β -lactoglobulin.

11. (Withdrawn) The method for detecting milk allergens according to claim 9, wherein the anti- β -lactoglobulin monoclonal antibody is the anti- β -lactoglobulin monoclonal antibody P β GL1 produced by hybridoma (FERM ABP-10281) and/or the anti- β -lactoglobulin monoclonal antibody P β GL2 produced by hybridoma (FERM ABP-10282) and/or the anti- β -lactoglobulin monoclonal antibody P β GL3 produced by hybridoma (FERM ABP-10283).

12. (Canceled)

13. (Withdrawn) The method for detecting milk allergens according to claim 2, wherein a casein and/or a whey protein is extracted with the use of urea and 2-mercaptoethanol from a sample.

14-102. (Canceled)

103. (Currently amended) A method for detecting albumen allergens in a sample, wherein a denatured albumen allergens in the sample are detected by sandwich ELISA using two types of anti-ovalbumin monoclonal antibody antibodies, a first and a second monoclonal antibody, recognizing native albumen allergens a reduced carboxymethylated ovalbumin, each and a monoclonal antibody antibody recognizing denatured albumen allergens are used in combination a different epitope, which method comprises the following steps:

(a) allowing the first anti-ovalbumin monoclonal antibody bound to an insolubilized carrier to trap the albumen allergen in the sample;

(b) allowing the labeled second anti-ovalbumin monoclonal antibody to react with the albumen allergen in the sample trapped by the first anti-ovalbumin monoclonal antibody; and

(c) analyzing the albumen allergen in the sample qualitatively and quantitatively.

104. (Currently amended) The A method for detecting albumen allergens in a sample according to claim 103, wherein the denatured albumen allergens in the sample are detected by immunochromatography using two types of anti-ovalbumin monoclonal antibody antibodies, a first and a second monoclonal antibody, recognizing native albumen allergens and/or denatured albumen allergens is an anti-ovalbumin monoclonal antibody a reduced carboxymethylated ovalbumin, each recognizing a different epitope, which method comprises the following steps:

(a) preparing an antigen-antibody complex in which the albumen allergen is bound to the first anti-ovalbumin monoclonal antibody, labeled with gold colloid;

(b) allowing the antigen-antibody complex to move on a test strip by capillary action;
and

(c) analyzing qualitatively the albumen allergen according to the presence or absence of a colored line appearing by a trapping of the antigen-antibody complex by the fixed second anti-ovalbumin monoclonal antibody.

105. (Currently amended) The method for detecting albumen allergens according to claim 103, wherein the anti-ovalbumin monoclonal antibody antibodies recognizing native albumen allergens and/or denatured albumen allergens is an anti-ovomucoid monoclonal antibody a reduced carboxymethylated ovalbumin are the anti-ovalbumin monoclonal antibody PDOA1 produced by hybridoma (FERM BP-10275) and/or the anti-ovalbumin monoclonal antibody PDOA2 produced by hybridoma (FERM BP-10276).

106. (Withdrawn) A method for detecting flour allergens, wherein an anti-flour gliadin monoclonal antibody recognizing a native flour gliadin and a flour gliadin solubilized with a denaturant is used.

107. (Withdrawn) The method for detecting flour allergens according to claim 106, wherein the anti-flour gliadin monoclonal antibody recognizes a native flour gliadin, a reduced-

carboxymethylated flour gliadin, a flour gliadin solubilized with 0.1 M acetate, a flour gliadin solubilized with 70% ethanol, and a flour gliadin solubilized with a denaturant.

108. (Withdrawn) A method for detecting buckwheat allergens, wherein an anti-buckwheat crude protein monoclonal antibody recognizing a native buckwheat crude protein and a heat-denatured buckwheat crude protein is used.

109. (Withdrawn) The method for detecting buckwheat allergens according to claim 108, wherein the anti-buckwheat crude protein monoclonal antibody recognizes a 24Da protein and a heat-denatured buckwheat crude protein, or an anti-buckwheat crude protein monoclonal antibody recognizing a 76kDa protein and a native buckwheat crude protein.

110. (Withdrawn) A method for detecting peanut allergens, wherein an anti-Ara h1 protein monoclonal antibody recognizing a native peanut Ara h1 protein and a heat-denatured peanut Ara h1 protein is used.

111. (Withdrawn) The method for detecting peanut allergens according to claim 110, wherein the anti-Ara h1 protein monoclonal antibody recognizes a native Ara h1 protein and a native peanut crude protein, and/or an urea-treated Ara h1 protein and an urea-treated peanut crude protein.

112. (New) The method for detecting albumen allergens according to claim 104, wherein the anti-ovalbumin monoclonal antibodies recognizing a reduced carboxymethylated ovalbumin are the anti-ovalbumin monoclonal antibody PDOA1 produced by hybridoma (FERM BP-10275) and/or the anti-ovalbumin monoclonal antibody PDOA2 produced by hybridoma (FERM BP-10276).